

# Pietro Bartocci

## List of Publications by Year in descending order

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84  
papers

3,049  
citations

147566

31  
h-index

168136

53  
g-index

89  
all docs

89  
docs citations

89  
times ranked

3381  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermogravimetric analysis and kinetic study of poplar wood pyrolysis. <i>Applied Energy</i> , 2012, 97, 491-497.	5.1	599
2	Prospective contributions of biomass pyrolysis to China's 2050 carbon reduction and renewable energy goals. <i>Nature Communications</i> , 2021, 12, 1698.	5.8	146
3	Bioenergy in China: Evaluation of domestic biomass resources and the associated greenhouse gas mitigation potentials. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 127, 109842.	8.2	136
4	Pyrolysis-catalysis of different waste plastics over Fe/Al <sub>2</sub> O <sub>3</sub> catalyst: High-value hydrogen, liquid fuels, carbon nanotubes and possible reaction mechanisms. <i>Energy Conversion and Management</i> , 2021, 229, 113794.	4.4	105
5	Phytohormones and Effects on Growth and Metabolites of Microalgae: A Review. <i>Fermentation</i> , 2018, 4, 25.	1.4	90
6	Technologies for energetic exploitation of biodiesel chain derived glycerol: Oxy-fuels production by catalytic conversion. <i>Applied Energy</i> , 2013, 102, 63-71.	5.1	72
7	Recovery of precious metals from scrap printed circuit boards through pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2015, 111, 140-147.	2.6	68
8	Straight and waste vegetable oil in engines: Review and experimental measurement of emissions, fuel consumption and injector fouling on a turbocharged commercial engine. <i>Fuel</i> , 2016, 182, 198-209.	3.4	67
9	A simplified method for kinetic modeling of coffee silver skin pyrolysis by coupling pseudo-components peaks deconvolution analysis and model free-isoconversional methods. <i>Fuel</i> , 2020, 278, 118260.	3.4	66
10	Thermogravimetric analysis of the behavior of sub-bituminous coal and cellulosic ethanol residue during co-combustion. <i>Bioresource Technology</i> , 2015, 186, 154-162.	4.8	65
11	Analysis of optimal temperature, pressure and binder quantity for the production of biocarbon pellet to be used as a substitute for coke. <i>Applied Energy</i> , 2019, 256, 113933.	5.1	64
12	Magnetic biochar obtained through catalytic pyrolysis of macroalgae: A promising anode material for Li-ion batteries. <i>Renewable Energy</i> , 2019, 140, 704-714.	4.3	63
13	A techno-economic analysis of a solar PV and DC battery storage system for a community energy sharing. <i>Energy</i> , 2022, 244, 123191.	4.5	55
14	LCA analysis of food waste co-digestion. <i>Science of the Total Environment</i> , 2020, 709, 136187.	3.9	53
15	Technical and economic feasibility analysis of an anaerobic digestion plant fed with canteen food waste. <i>Energy Conversion and Management</i> , 2019, 180, 938-948.	4.4	50
16	Pyrolysis of pellets made with biomass and glycerol: Kinetic analysis and evolved gas analysis. <i>Biomass and Bioenergy</i> , 2017, 97, 11-19.	2.9	49
17	Preparation of Iron- and Nitrogen-Codoped Carbon Nanotubes from Waste Plastics Pyrolysis for the Oxygen Reduction Reaction. <i>ChemSusChem</i> , 2020, 13, 938-944.	3.6	49
18	A low-cost pyrogas cleaning system for power generation: Scaling up from lab to pilot. <i>Applied Energy</i> , 2013, 111, 1080-1088.	5.1	46

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19	An experimental and kinetic modeling study of glycerol pyrolysis. <i>Applied Energy</i> , 2016, 184, 68-76.	5.1	45
20	Bimetallic carbon nanotube encapsulated Fe-Ni catalysts from fast pyrolysis of waste plastics and their oxygen reduction properties. <i>Waste Management</i> , 2020, 109, 119-126.	3.7	45
21	Hydrogen-rich gas production through steam gasification of charcoal pellet. <i>Applied Thermal Engineering</i> , 2018, 132, 817-823.	3.0	43
22	Batch pyrolysis of pellet made of biomass and crude glycerol: Mass and energy balances. <i>Renewable Energy</i> , 2018, 124, 172-179.	4.3	43
23	Public-private partnerships value in bioenergy projects: Economic feasibility analysis based on two case studies. <i>Biomass and Bioenergy</i> , 2014, 66, 387-397.	2.9	40
24	Ultrasonic emulsification assisted immobilized <i>Burkholderia cepacia</i> lipase catalyzed transesterification of soybean oil for biodiesel production in a novel reactor design. <i>Renewable Energy</i> , 2019, 135, 1025-1034.	4.3	40
25	Effect of Torrefaction on Properties of Pellets Produced from Woody Biomass. <i>Energy &amp; Fuels</i> , 2020, 34, 15343-15354.	2.5	40
26	Rotary Kiln Slow Pyrolysis for Syngas and Char Production From Biomass and Waste-Part I: Working Envelope of the Reactor. <i>Journal of Engineering for Gas Turbines and Power</i> , 2007, 129, 901-907.	0.5	38
27	Environmental impact of Sagrantino and Grechetto grapes cultivation for wine and vinegar production in central Italy. <i>Journal of Cleaner Production</i> , 2017, 140, 569-580.	4.6	37
28	Evaluation of the kinematic viscosity in biodiesel production with waste vegetable oil, ultrasonic irradiation and enzymatic catalysis: A comparative study in two-reactors. <i>Fuel</i> , 2018, 227, 448-456.	3.4	37
29	Review of public-private partnerships in agro-energy districts in Southern Europe: The cases of Greece and Italy. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 39, 667-678.	8.2	34
30	Kinetic Analysis of Digestate Slow Pyrolysis with the Application of the Master-Plots Method and Independent Parallel Reactions Scheme. <i>Molecules</i> , 2019, 24, 1657.	1.7	33
31	High-value products from ex-situ catalytic pyrolysis of polypropylene waste using iron-based catalysts: the influence of support materials. <i>Waste Management</i> , 2021, 136, 47-56.	3.7	33
32	Thermal degradation of driftwood: Determination of the concentration of sodium, calcium, magnesium, chlorine and sulfur containing compounds. <i>Waste Management</i> , 2017, 60, 151-157.	3.7	32
33	Energy Storage Benefits Assessment Using Multiple-Choice Criteria: The Case of Drini River Cascade, Albania. <i>Energies</i> , 2022, 15, 4032.	1.6	32
34	VOC emissions of coal-fired power plants in China based on life cycle assessment method. <i>Fuel</i> , 2021, 292, 120325.	3.4	31
35	Production and use of biochar from lignin and lignin-rich residues (such as digestate and olive) <i>Tj ETQq1 1 0.784314 rgBT /Overlock 10</i>	2.6	30
36	Codigestion of Untreated and Treated Sewage Sludge with the Organic Fraction of Municipal Solid Wastes. <i>Fermentation</i> , 2017, 3, 35.	1.4	27

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37	Pyrolysis of Olive Stone for Energy Purposes. <i>Energy Procedia</i> , 2015, 82, 374-380.	1.8	26
38	Carbon footprint of truffle sauce in central Italy by direct measurement of energy consumption of different olive harvesting techniques. <i>Journal of Cleaner Production</i> , 2015, 87, 188-196.	4.6	26
39	Effect of Heavy Metals in the Performance of Anaerobic Digestion of Olive Mill Waste. <i>Processes</i> , 2020, 8, 1146.	1.3	26
40	Scaled-up biodiesel synthesis from Chinese Tallow Kernel oil catalyzed by <i>Burkholderia cepacia</i> lipase through ultrasonic assisted technology: A non-edible and alternative source of bio energy. <i>Ultrasonics Sonochemistry</i> , 2019, 58, 104658.	3.8	25
41	Chemical and physical characterization of food waste to improve its use in anaerobic digestion plants. <i>Energy Nexus</i> , 2022, 5, 100049.	3.3	25
42	Rotary Kiln Slow Pyrolysis for Syngas and Char Production From Biomass and Waste – Part II: Introducing Product Yields in the Energy Balance. <i>Journal of Engineering for Gas Turbines and Power</i> , 2007, 129, 908-913.	0.5	23
43	<i>Selenastrum Capricornutum</i> a New Strain of Algae for Biodiesel Production. <i>Fermentation</i> , 2020, 6, 46.	1.4	23
44	Efficiency of China's carbon market: A case study of Hubei pilot market. <i>Energy</i> , 2021, 222, 119946.	4.5	23
45	Influence of the ratio of Fe/Al <sub>2</sub> O <sub>3</sub> on waste polypropylene pyrolysis for high value-added products. <i>Journal of Cleaner Production</i> , 2021, 315, 128240.	4.6	22
46	Decarbonizing university campuses through the production of biogas from food waste: An LCA analysis. <i>Renewable Energy</i> , 2021, 176, 565-578.	4.3	22
47	Life cycle water consumption for oxyfuel combustion power generation with carbon capture and storage. <i>Journal of Cleaner Production</i> , 2021, 281, 124419.	4.6	21
48	Carbonization using an Improved Natural Draft Retort Reactor in India: Comparison between the performance of two woody biomasses, <i>Prosopis juliflora</i> and <i>Casuarina equisetifolia</i> . <i>Fuel</i> , 2021, 285, 119095.	3.4	21
49	Substitution of coke with pelletized biocarbon in the European and Chinese steel industries: An LCA analysis. <i>Applied Energy</i> , 2021, 304, 117644.	5.1	21
50	Evaluation of machine learning algorithms to predict internal concentration polarization in forward osmosis. <i>Journal of Membrane Science</i> , 2022, 646, 120257.	4.1	20
51	Natural Draft-Improved Carbonization Retort System for Biocarbon Production from <i>Prosopis juliflora</i> Biomass. <i>Energy &amp; Fuels</i> , 2019, 33, 11113-11124.	2.5	17
52	i-REXFO LIFE: an innovative business model to reduce food waste. <i>Energy Procedia</i> , 2018, 148, 439-446.	1.8	15
53	An Incubation System to Enhance Biogas and Methane Production: A Case Study of an Existing Biogas Plant in Umbria, Italy. <i>Processes</i> , 2019, 7, 925.	1.3	15
54	On the self-heating behavior of upgraded biochar pellets blended with pyrolysis oil: Effects of process parameters. <i>Fuel</i> , 2020, 278, 118395.	3.4	15

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55	Research on low-carbon campus based on ecological footprint evaluation and machine learning: A case study in China. <i>Journal of Cleaner Production</i> , 2021, 323, 129181.	4.6	14
56	Considerations on factors affecting biochar densification behavior based on a multiparameter model. <i>Energy</i> , 2021, 221, 119893.	4.5	13
57	Design and Preliminary Operation of a Gasification Plant for Micro-CHP with Internal Combustion Engine and SOFC. <i>Energy Procedia</i> , 2015, 81, 298-308.	1.8	11
58	Biomethanation Potential (BMP) Study of Mesophilic Anaerobic Co-Digestion of Abundant Bio-Wastes in Southern Regions of Tunisia. <i>Processes</i> , 2021, 9, 48.	1.3	10
59	Geometry optimization of a commercial annular RQL combustor of a micro gas turbine for use with natural gas and vegetal oils. <i>Energy Procedia</i> , 2017, 126, 875-882.	1.8	9
60	Effect of potassium on catalytic characteristics of ZSM-5 zeolite in fast pyrolysis of biomass-based furan. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021, 157, 105230.	2.6	9
61	Gas Turbines CHP for Bioethanol and Biodiesel Production Without Waste Streams. , 2011, , .		8
62	Performance Evaluation of the IPRP Technology When Fueled With Biomass Residuals and Waste Feedstocks. , 2009, , .		8
63	Carbon Footprint as a Tool to Limit Greenhouse Gas Emissions. , 0, , .		7
64	Assessment of the Energy Conversion of Whole Oil Fruits With a Pyrolysis and Gas Turbine Process. , 2010, , .		6
65	Biomass feedstock for IGCC systems. , 2017, , 145-180.		6
66	Performance of dual multistage flashing - recycled brine and solar power plant, in the framework of the water-energy nexus. <i>Energy Nexus</i> , 2022, 5, 100046.	3.3	6
67	Decarbonizing materials sourcing and machining in the gas turbine sector, through a cost-carbon footprint nexus analysis. <i>Journal of Cleaner Production</i> , 2021, 310, 127392.	4.6	5
68	CFD Modelling of the Fuel Reactor of a Chemical Loping Combustion Plant to Be Used with Biomethane. <i>Processes</i> , 2022, 10, 588.	1.3	5
69	LCA Analysis of Biocarbon Pellet Production to Substitute Coke. <i>DEStech Transactions on Environment Energy and Earth Science</i> , 2019, , .	0.0	4
70	Development of a tool to optimize economic and environmental feasibility of food waste chains. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 4307-4320.	2.9	4
71	A Quantitative Methodology to Measure Injector Fouling Through Image Analysis. <i>Energy Procedia</i> , 2016, 101, 693-700.	1.8	3
72	Investigation of the influence of dimensions and material of the pipes on the water hammer effect in microbial fuel cells wastewater treatment plants. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 44, 100990.	1.7	3

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73	Bioenergy recovery from Southern Tunisia's organic wastes: analysis and kinetic modeling study of biomethane production. Biomass Conversion and Biorefinery, 0, , 1.	2.9	3
74	Food waste anaerobic digestion in Umbria region (Italy): scenario analysis on the use of digestate through LCA. E3S Web of Conferences, 2020, 197, 08011.	0.2	3
75	Rotary Kiln Slow Pyrolysis for Syngas and Char Production From Biomass and Waste: Part 1 "Working Envelope of the Reactor. , 2006, , 409.		2
76	Biomass Microturbine Based EFGT and IPRP Cycles: Environmental Impact Analysis and Comparison. , 2017, , .		2
77	Bio-methanisation potential (BMP) test for organic waste available in the south region of Tunisia. , 2020, , .		2
78	Technical Economic and Environmental analysis of Chemical Looping versus oxyfuel combustion for NGCC power plant. E3S Web of Conferences, 2021, 312, 08019.	0.2	2
79	Rotary Kiln Slow Pyrolysis for Syngas and Char Production From Biomass and Waste: Part 2 "Introducing Product Yields in the Energy Balance. , 2006, , 417.		1
80	Environmental Impact on the Life Cycle for Turbine Based Biomass CHP Plants. , 2018, , .		1
81	Comparison of mini Organic Rankine Cycle plants for waste heat recovery. AIP Conference Proceedings, 2019, , .	0.3	1
82	Application of Design-for-LCA Methodology to Compare Architectural Alternatives for the Compressor Rotor of an Industrial Gas Turbine. , 2019, , .		1
83	Substrate Characterization in the Anaerobic Digestion Process. Clean Energy Production Technologies, 2021, , 307-342.	0.3	0
84	Implementing Environmental Impact Assessment on the Life Cycle for Industrial Gas Turbines Development. , 2019, , .		0